a slot inserted transversely in the terminal plates creating four separate pad portions,

said slot set to a depth that determines the best stability of resistance for the resistor,

said pad portions being split into a current pad and a sense pad with each pad portion comprising terminal connection areas;

[said terminal plates each having a current pad portion and a sense pad portion separated by a transverse slot only in the terminal plates, with each pad portion comprising terminal connection areas,]

said current pad portion having a length greater in a direction from said slot than the corresponding length of said sense pad portion[.],

said pad portions being resistive to drifts in electrical measurements created by temperature rises that occur due to pulses of high power or high ambient temperatures.

Please cancel claim 2.

REMARKS

The Examiner has rejected claim 1 as being obvious over Schat in view of Person et al. The application has been amended to overcome all arguments raised by the Examiner.

The Examiner indicates that the present invention would have been obvious to one of ordinary skill in the art in view of Schat's teaching of an SMD resistor and Person's teaching

of portioned terminal pads. However, neither Schat nor Person teach a surface mounted current sensing resistor having high stability for electrical measurements when subjected to high ambient temperatures and to pulses of high power. Further, neither Schat nor Person teach of optimizing the depth of slots in the terminations to achieve the best stability of electrical readings with changing ambient temperature and under influence of the self heating effect. Claim 1 provides very clearly a surface mounted current sensing resistor having slots inserted transversely in the terminal plates providing for the best stability of resistance for electrical measurements when subjected to high ambient temperatures and to pulses of high power. The patents to Schat and Person do not show the structure. Even if the inventions of Schat and Person are taken together they do not show the structure of the present invention.

CONCLUSION

For the following reasons, it is requested that the rejection of the claims be reconsidered and that the application be passed to issue.

Respectfully submitted,

Donald H. Zarley, #18,543
ZARLEY, McKEE, THOMTE,
VOORHEES & SEASE
Attorneys of Record

Suite 3200, 801 Grand Avenue
Des Moines, IA 50309-2721
515-288-3667 - jlk

A